

Message

From: Lindstrom, Andrew [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=04BF7CF26AA44CE29763FBC1C1B2338E-LINDSTROM, ANDREW]
Sent: 12/8/2016 2:25:53 PM
To: 'Bergman, Erica' [Erica.Bergman@dep.nj.gov]
CC: 'Goodrow, Sandra' [Sandra.Goodrow@dep.nj.gov]
Subject: RE: Citations showing profile of PFCs (e.g. PFNA and C11) near West Deptford location

Erica,

Thank you for this excellent information – and for marking the text in the relevant sections.

I will be using both as references in the modified plan which I hope to get out to you all today for your final comments.

Thank you very much,

Andy

From: Bergman, Erica [mailto:Erica.Bergman@dep.nj.gov]
Sent: Thursday, December 01, 2016 4:06 PM
To: Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Cc: Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>
Subject: FW: Citations showing profile of PFCs (e.g. PFNA and C11) near West Deptford location

Hi Andy,

See information provided below and attached by Gloria Post that may be used as references for the statement “Previous analysis of surface water and groundwater suggests specific PFAS source signatures...” in the Study Plan.

Also to consider, below are a couple of possible references from Solvay’s reporting:

Solvay issued a report on Delaware River surface water and sediment sampling they conducted in August 2014. They did not find any C9 or C11 in surface water (main components to Surflon that they used), which isn’t too surprising since they stopped using Surflon in 2010. They did find C9 and C11 in sediments and sediment pore water samples near their plant.

Solvay provided DEP with an Excel spreadsheet with on-site groundwater data collected in 2013, results show C9, C8 (PFOA, PFOS) & C11. In addition, Solvay issued a report on off-site groundwater sampling when they installed 5 temporary well points in Sept-Oct 2014. They found C9 and C8 (PFOA and PFOS), but no C11. The results were questioned by DEP since they added 4,000-10,000 gallons of drilling water but only removed 300-500 gallons before sampling.

Lastly, one **Ex. 4 CBI** has the following information on the **Ex. 4 CBI**, which they named in the following way:

Ex. 4 CBI

Ex. 4 CBI

I don’t know if it’s relevant to what **Ex. 4 CBI** but I found on the internet the following research paper co-authored by someone from Solvay **Ex. 4 CBI**

http://www.academia.edu/13374950/19_F_NMR_Investigation_of_Mixed_Surfactants_Partitioning_and_Kinetic_Stability_of_Fluorinated_Nanodroplets_in_Water

Thanks again and let me know if you need any additional information.

Erica Bergman

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From: Post, Gloria

Sent: Thursday, December 1, 2016 1:34 PM

To: Bergman, Erica <Erica.Bergman@dep.nj.gov>

Subject: Citations showing profile of PFCs (e.g. PFNA and C11) near West Deptford location

Erica,

Info on occurrence in Delaware River water and fish of components of Surflon (PFNA and C11) used at the Solvay facility is found in the following documents

<http://www.nj.gov/drbc/library/documents/contaminants-of-emerging-concernAug2013rev.pdf>

See Figures F7 and F6 on p. 136-137, and Table B8, B9, and B10 on p. 64-66

<http://www.nj.gov/drbc/library/documents/DRBSWC-MacGillivray-2012.pdf>

See Slides 13 and 16

Post et al 2013 ES&T paper attached – see highlighting on page 5 of PDF

DWQI PFNA document – see highlighting on numbered page 8 which is page 12 of the PDF

Please let me know if you have any questions or need more information.

Thanks
Gloria